

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): K. McCARTHY ET AL.

Serial No.: New Application

Filed: August 31, 2001

For: HANDSET PERSONALISATION

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

August 31, 2001

SIR:

Prior to examination, please amend the above-identified application as indicated below and consider the remarks which follow:

IN THE SPECIFICATION:

Page 1, paragraph beginning at line 9, has been rewritten as indicated below:

-- During the past few years cellular terminals have changed appearance from heavy break-like formed electronic boxes to attractive designs. Furthermore the users want to personalize their phones by using colored, exchangeable covers, certain ringing tones, etc. --.

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Page 1, paragraph beginning at line 19, has been rewritten as indicated

below:

-- In US Patent 6,094,587 there is described a method for programming a ringing tone of a telephone in a format that may be transferred from one telephone to another, e.g., in a short message. --.

Page 1, paragraph beginning at line 23, has been rewritten as indicated

below:

-- US Patent 5,479,476 describes the use of profiles in mobile terminals whereby the user by means of a few key presses may change the alerting of the terminal in order to fit into the requirements of the environment. This is very convenient for the user when moving from a noisy environment, e.g., factory or street, into a silent environment, e.g., a meeting room, a theater, or a restaurant. The users highly appreciate these profiles. --.

Page 2, paragraph beginning at line 10, has been rewritten as indicated

below:

-- Preferably the transmitted profile message includes a ringing tone and at least one graphical picture which is stored in a profile selected by the user. It is also possible to include a calendar note and/or a bookmark in the profile message. The remote terminal can be a server, which may provide promotional content and/or event driven content. According to the preferred embodiment of the invention, the

communication terminal allows the user to discard a received profile message after inspection of items included in the profile message. The data contained in the profile message includes according to the preferred embodiment a plurality of individual pictures, and the pictures are displayed successively in order to create an animation. The profile message may furthermore include a name label for the profile. --.

Page 2, paragraph beginning at line 21, has been rewritten as indicated below:

-- According to a second aspect of the invention there is provided a communication terminal having a number of user selectable profiles each including a group of user adjustable operating characteristics, and comprising means for receiving messages, means for analyzing the message type and for detecting user adjustable operating characteristics when present in the message, and means for storing user adjustable operating characteristics as one of the number of user selectable profiles available in the communication terminal. --.

Page 2, paragraph beginning at line 31 to page 3, line 5, has been rewritten as indicated below:

-- According to a third aspect of the invention there is provided a method of providing operating characteristics for a profile for a communication terminal, the communication terminal including a number of user selectable profiles each

including a group of user adjustable operating characteristics, comprising arranging a group of user adjustable operating characteristics in a message having a predetermined message format, and transmitting the message to the communication terminal via a communication channel. --.

Page 3, paragraph beginning at line 7, has been rewritten as indicated below:

-- According to a fourth aspect of the invention there is provided a communication terminal having a number of user selectable profiles each including a group of user adjustable operating characteristics, and comprising means for arranging a group of user adjustable operating characteristics in a message having a predetermined message format, and means for transmitting said message to the communication terminal via a communication channel. --.

Page 3, paragraph beginning at line 15, has been rewritten as indicated below:

-- According to a fifth aspect of the invention there is provided a method of handling operating characteristics of a communication terminal, where the communication terminal has a number of user selectable groups of user adjustable operating characteristics, and comprising the reception of a message including a group of user adjustable operating characteristics from a remote terminal transmitted via a communication channel, and saving the group of user adjustable operating characteristics individually in each selectable group in the communication terminal. In a preferred embodiment of this fifth aspect of the invention, the message may include a ringing tone and at least one graphical picture, which is stored in a corresponding user

selectable group. It also possible to include a calendar note and/or a bookmark, for being stored in a corresponding user selectable group. --.

Page 3, paragraph beginning at line 28 to page 4, line 5, has been rewritten as indicated below:

-- According to a sixth aspect of the invention there is provided a remote terminal comprising operating characteristics for a communication terminal, where the communication terminal has a number of user selectable groups of user adjustable operating characteristics, and the remote terminal comprises bundling means to generate a message including a group of user adjustable operating characteristics, and transmitting means to transfer the message to the communication terminal via a communication channel, where the communication terminal is able to save the group of user adjustable operating characteristics individually in each selectable group in the communication terminal. --.

Page 4, paragraph beginning at line 15, has been rewritten as indicated below:

-- Fig. 2 schematically shows parts of a communication terminal for communication with a cellular network. --.

Page 4, paragraph beginning at line 24, has been rewritten as indicated below:

-- Fig. 5 shows a network in which profiles of terminals may be transferred according to the invention. --.

Page 5, paragraph starting at line 24, has been rewritten as indicated

below:

-- Fig. 2 schematically shows the most important parts of a preferred embodiment of the phone, the parts being essential to the understanding of the invention. The processor 18 controls communications with the network via the transmitter/receiver circuit 19 and an internal antenna 20. --.

Page 5, paragraph beginning at line 29 to page 6, line 6, has been rewritten as indicated below:

-- The microphone 6 transforms the user's speech into analog signals, the analog signals formed thereby are A/D converted in an A/D converter (not shown) before the speech is encoded in a digital signal processing unit 14 (DSP). The encoded speech signal is transferred to the processor 18, which supports the GSM terminal software. The processor 18 also forms the interface to the peripheral units of the apparatus, including a RAM memory 17a and a Flash ROM memory 17b, a SIM card 16, the display 3 and the keypad 2 (as well as data, power supply, etc.). The digital signal-processing unit 14 speech-decodes the signal, which is transferred from the processor 18 to the earpiece 5 via a D/A converter (not shown). --.

Page 7, paragraph beginning at line 1, has been rewritten as indicated

below:

-- When the address information has been added at the SMS transmission controller 31, the message is transferred into an outbox 32, which sends the message, and which has access to a buffer, in which the message is stored until a successful transmission has been reported. If the transmission fails, the outbox 32 re-transmits the message. When the transmitter/ receiver circuit 19 has network coverage and is

idle, the message is transferred to an SMS transmission driver circuit 33 by the controller 18 which adds the header to the message information relating to the mobile communications system in question, such as validity information (which indicates in which direction the message is going, i.e., from a mobile station to a message service center or vice versa), processes the address information into a form required by the mobile communications system, and adds to the message the address of the message service center, as well as the short message identifier, and forms the information to be transmitted, e.g., a digital signal for a transmitter 19. --.

Page 7, paragraph beginning at line 16, has been rewritten as indicated below:

-- The operations provided by the processor 18, the SMS transmission control unit 31, the SMS outbox 32 and the SMS transmission driver 33 can also be provided as an application run on a Personal Computer 58 (see fig. 5), which may have a connection to a short message service center via the Internet. --.

Page 7, paragraph beginning at line 29 to page 8, line 9, has been rewritten as indicated below:

-- If the message has an identifier indicating that the message includes a profile, the processor 18 will further search for an element identifying the individual elements of the profile. When the elements have been identified, the processor 18 starts to process the received data. For the name of the profile, the processor 18 performs a transformation of the binary characters into ASCII characters and identifies the text label as the name of the profile. For the ringing tone element, the processor 18 performs a transformation of the binary characters into ASCII characters and further the transformation of the

ASCII characters into a ringing tone. For the graphic element, the processor 18 performs a transformation of the binary characters into a bit map file with the dimensions given in the element identifier, and if it is an animation the transformation is repeated for each image. All the individual elements are stored in a temporary memory.

--.

Page 8, paragraph beginning at line 15, has been rewritten as indicated below:

-- The profile concept has been discussed in detail in the assignees US patent 5,479,476. According to the preferred embodiment of the invention it will be possible to set the phone tones and profile graphic to work in a desired manner by selecting the desired setting group or "profile". This makes it easy to adjust the phone for different events and environments. --.

Page 8, paragraph beginning at line 21, has been rewritten as indicated below:

-- With reference to Fig. 3 there is shown a short cut feature in the phone for selecting the desired profile. The idle state display (idle state is the home state of the phone in which it is waiting for any input from a user or a network), of the preferred embodiment of the phone according to the invention is shown as the first display in the sequence. The display 3 includes an operator logo 21 and a softkey label 22. By briefly pressing the "on/off"-key 4, the selectable profiles will be listed as selectable items 23 as an endless list in the display 3 together with a "switch off" the phone option. The desired profile is selected by moving a cursor 24 among the selectable items 23 -- according to the preferred embodiment of the invention these items will include: "switch off", "Personal", "Silent", "Discreet", "Loud" and possibly one or more further profiles created or stored by the user -- and when the desired profile is highlighted the item, e.g. "Personal", is selected by pressing the softkey 8 having the softkey label 22 "OK", an information note shown in the third display will inform the user about the selected

profile "Personal tones in use". After a few seconds the display will automatically change back to the idle state display shown as the first display in Fig. 3. This will for some of the profiles include a small icon indicating that e.g. silent or discreet profile has been selected. The term highlighted is used for items in the display that are currently targeted for selection. There may be an inverted video bar (contrast invert) on the item to indicate the selection. When an item is highlighted, all user actions will be directed on the item. --.

Page 9, paragraph beginning at line 11, has been rewritten as indicated below:

-- However the full profile menu for editing, selection etc, has to be accessed by selecting "Menu" in idle state (first display of Fig. 4) and thereby entering the menu structure of the phone by pressing the softkey 8. In the menu the user has to scroll through the list of selectable items 23 by using the cursor navigation key 10 -- according to the preferred embodiment of the invention these items will include: "Phonebook", "Messages", "Call register", "Settings", "Call divert", "Games", "Calculator", "Clock", "Profiles" - for scrolling to the "Profiles" menu as illustrated in the second display in Fig. 4, and select the highlighted item by pressing the softkey 8 having the softkey label 22 "Select". --.

Page 9, paragraph beginning at line 21, has been rewritten as indicated below:

-- When the user selects "Profiles" a list of selectable items will occur. This list will as indicated in the third display of Fig. 4 include "Personal", "Silent", "Discreet", "Loud", "Profile name #1", "Profile name #2", where the last two items refer to one or more further possible profiles defined by the user or received from other users, while the first four items refers to profiles set from the factory. However some or all of these present profiles may also be edited. Now the user can move the cursor through the available profiles and select the desired one. No empty profiles will be listed. --.

Page 10, paragraph beginning at line 15, has been rewritten as indicated

below:

-- When the desired profile is highlighted the user selects the profile by pressing the softkey 8 now having the softkey label 23 "Option". When the user has selected one of the profiles e.g. "Personal" a list of selectable items will appear. This list will as indicated in the fourth display of Fig. 4 include "Use", "Personalise", and "Send". For editing a profile, the cursor 24 has to highlight "Personalise" and the user has to press the softkey 8 having the softkey label 22 "OK". Then a list of selectable items will appear, and this list will as indicated in the fifth display of Fig. 4 include adjustable settings as "Ringing tone", "Ringing volume", "Incoming call alert", "Message alert tone", "Keypad tones", "Warning and game tones", " Vibrating alert ", and " Profile graphic ". --.

Page 11, paragraph beginning at line 29 to page 12, line 2, has been

rewritten as indicated below:

-- The menu item "Profile graphic" sets the picture that is displayed in idle state after a selected period of time (called "timeout"). The user can select from a couple of pre-stored animations or animations received from a remote terminal. An animation is a sequence of images being repeatedly refreshed in the display. The way this kind of animation work is explained in details in the US patent 5,870,683 of the assignee. --.

Page 12, paragraph beginning at line 17, has been rewritten as indicated below:

-- In the sixth display of Fig. 4 the user may scroll through the entire list of available ringing tones and select the one he prefers. The same is done for all the other selectable settings the user wants to set. When a ringing tone is selected in the sixth

display by pressing the softkey 8 having the softkey label 22 "OK", the phone jumps to the higher menu level shown in the fifth display of Fig. 4. --.

Page 12, paragraph beginning at line 24, has been rewritten as indicated below:

-- If the user does not want to change a setting he simply presses the "clear key" 9 and the phone goes one level up in menu. If the user continues to press the "clear key" 9 the user will go one level up in menu each time until it reaches the idle state with the first display of Fig. 4. Alternatively the idle state may be reached by long pressing the "clear key" 9 (for more than 0.8 sec). --.

Page 12, paragraph beginning at line 30 to page 13, line 2, has been rewritten as indicated below:

-- Profiles transferred to a mobile communication terminal (e.g. a cellular phone) via a wireless network connection may be called Over-The-Air profiles or OTA profiles. OTA profiles are a new way to personalise the phone according to personal preferences. Similarly to normal profiles (pre-stored in the phone), they are used to adjust the phone for different situations of use. --.

Page 13, paragraph beginning at line 31 to page 32, line 6, has been rewritten as indicated below:

-- However more complex graphics may be desired and this may for example be provided as a sequence of simple bit-map images, e.g., 3-5 images, and these individual images are shown sequentially with a refresh time set by the user. Advantageously these animations only have a duration corresponding to a few seconds. After the termination of the animation one of the images remains in the display for a while, e.g. 30 minutes, and the animation is repeated. However other events can trigger the animation, e.g. an input from a sensor detecting changes of the movements of the terminal. --.

Page 14, paragraph beginning at line 15, has been rewritten as indicated below:

-- The entity formed by a number of base stations 50 and a single base station controller 52 is called a base station system (BSS) 53. The base station controller 52 manages radio communication channels and handovers. Furthermore the base station controller 52 is connected to a mobile services switching center (MSC) 54 via a so-called A-interface 55. The mobile services switching center 54 co-ordinates the formation of connections both from and to mobile stations. The mobile service switching center 54 connects the base station system 53 to the world outside the mobile communications network, e.g. to a short message service center (SM-SC) 55 managing the SMS activity in the mobile communications network. --.

Page 14, paragraph beginning at line 26, has been rewritten as indicated below:

-- When a user wants to send a short message (SMS) by means of the phone 1, the user writes or retrieves from the memory a message to be transmitted and gives the phone number of receiver of the message, i.e., an identifier of a receiving phone 56, to where the message is going to be transmitted. When sending a short message, the message goes from the phone 1 to the base station 50, and from there, through the base station controller 52 and the mobile services switching center 54, further to the short message service center 55. The short message is stored at the short message service center 55, from where it will be sent further to the receiving mobile station 56, and the route of the message will be in the same way as in transmission, but in the opposite direction. The short message service center 55 will be informed whether or not the mobile station 56 has received the short message. If not the short message will be re-transmitted. --.

Page 15, paragraph beginning at line 8, has been rewritten as indicated below:

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-- In addition to this, short messages can be sent from a Personal Computer (PC) 57 e.g. in a special Internet application available at some network operators home page available via the Internet 58. In this case, the mobile services switching center 54 is in connection with a gateway server 59 (GTW), which again is in connection with the Internet 58. On this WWW page containing the special Internet message application, the user inputs the telephone number of the receiving phone 56 and the message to be transmitted, upon where the message can be sent from the Personal Computer (PC) 57, in which case it goes through the Internet 58 and the gateway server 59 to the mobile services switching center 54 and further to the short message service center 55, and further to the receiving phone 56 through the mobile communications network. --.

Page 19, paragraph beginning at line 16 to page 20, line 20, has been amend as indicated below:

-- According to the present invention it is also possible to transmit a message with a bundle of content, by means of a remote terminal comprising operating characteristics for a communication terminal. The communication terminal can be a phone 1, 56, which comprises a number of user selectable groups of user adjustable operating characteristics. The remote terminal can be the PC 57 or the Internet 58, which comprises bundling means to generate a message including a group of user adjustable operating characteristics, e.g. a ringing tone and a graphical picture. The remote terminal further comprises transmitting means to transfer the message to the communication terminal via a communication channel, like using SMS or another kind of communication channel. Thus, content is transmitted from the remote terminal via a communication channel, which both can be done by means of the PC 57 or the Internet 58. Upon reception of the message, the communication terminal is able to save the group of user adjustable operating characteristics individually in each selectable group in the communication terminal. Thus, instead of sending a message in format of a profile, the content can be handled individually within a phone's 1 user selectable groups, which also increase the degree of freedom for the user to personalise the phone. --.

Page 21, paragraph beginning at line 14, has been amended as indicated below:

-- The embodiment described with reference to Figs. 6 and 7 relates to an OTA profile message in which the message includes the profile name, a profile graphic acting as a screen saver, and a ringing tone. Fig. 6 shows a flow chart over the OTA Profile reception procedure and Fig. 7 shows a sequence of displays upon reception of the OTA Profile. When an OTA profile is received (step 60), an SMS Alert tone is played. A soft notification 26 "OTA Profile received" is displayed (step 61). Soft notifications inform the user of events that have typically occurred without the user having been involved. Normally, they are shown as display text. --.

Page 22, paragraph beginning at line 1, has been rewritten as indicated below:

-- When the user upon the soft notification (the second display of fig. 7) presses the softkey 8 having the softkey label 22 "Option", the phone 1 displays a selection list (in step 66) of the following selectable items:

Details

Save

Discard --.

Page 22, paragraph beginning at line 18, has been rewritten as indicated below:

-- When the user in step 71 selects the "Playback" softkey 8 the phone will play the received ringing tone for the user in step 72, and an information note 27 will as shown items in the fifth display of fig. 7 be shown in the display 2. The softkey label 22 will change to "Quit" and the softkey functionality will be quitting the ringing tone playback. After the playing is interrupted or finished, the selection list with the selectable items (the fourth display of Fig. 7) is displayed again. --.

Page 23, paragraph beginning at line 1, has been rewritten as indicated below:

-- If the user in step 67 selects "Save" from the softkey selection list (third display of Fig. 7), or save from the details list in step 71, the phone displays an information note 27 as shown in the sixth display of Fig. 7 with the display text "Select location for the profile". After this the phone displays as shown in the seventh display of Fig. 7 all the profiles as a selection list. The user can in step 68 select the profile to be replaced. --.

Page 23, paragraph beginning at line 14, has been rewritten as indicated below:

-- After the selection, the Confirmation Query "Replace profile U" is displayed as an information note 27 if U is the name of the replaced profile as shown in the eighth display of Fig. 7. The softkey label 22 is "OK". If the user confirms, the profile is saved in step 69 and a confirmation note 28 saying "OTA profile has been saved" is displayed as shown in the ninth display of Fig. 7, and the phone goes to the idle state. --.

IN THE CLAIMS:

The claims have been rewritten as indicated below:

1. (Amended) A method of handling operating characteristics of a profile in a communication terminal, the communication terminal includes a number of user selectable profiles each including a group of user adjustable operating characteristics, comprising:

receiving a message including a group of user adjustable operating characteristics from a remote terminal transmitted via a communication channel, and

saving the group of user adjustable operating characteristics as a profile in the communication terminal.

2. (Amended) A method according to claim 1 wherein the message includes a ringing tone and at least one graphical picture stored in a profile selected by the user.

12. (Amended) A communication terminal having a number of user selectable profiles each including a group of user adjustable operating characteristics comprising means for receiving messages, means for analysing a message type and for detecting user adjustable operating characteristics when present in the message, and means for storing user adjustable operating characteristics as one of the number of user selectable profiles available in the communication terminal.

13. (Amended) A communication terminal according to claim 12 wherein the message includes a ringing tone and at least one graphical picture for being stored in a profile selected by the user.

14. (Amended) A communication terminal according to claim 12 wherein the communication terminal has means for displaying the at least one graphical picture in the display independent of the terminal when the user has selected the profile for the communication terminal.

16. (Amended) A communication terminal according to claim 13 wherein the at least one graphical picture includes a plurality of individual pictures, and the terminal has means for displaying the pictures successively in order to create an animation.

17. (Amended) A communication terminal according to claim 16 comprising means for displaying the animation as a screen saver when the user has selected the profile for the communication terminal.

18. (Amended) A communication terminal according to claim 12 wherein the message furthermore includes a name label for the profile.

19. (Amended) A method of providing operating characteristics for a profile for a communication terminal, the communication terminal includes a number of user selectable profiles each including a group of user adjustable operating characteristics,

comprising arranging a group of user adjustable operating characteristics in a message having a predetermined message format, and transmitting the message to the communication terminal via a communication channel.

20. (Amended) A method according to claim 19 wherein the message includes a ringing tone and at least one graphical picture stored in a profile selected by the user.

21. (Amended) A method according to claim 20 wherein the at least one graphical picture is displayed in the display of the communication terminal dependent upon the operation thereof when the user has selected the profile for the communication terminal.

22. (Amended) A method according to claim 20 wherein received profile message is discarded by the communication terminal after inspection of items included in the profile message.

23. (Amended) A method according to claim 20 wherein the at least one graphical picture includes a plurality of individual pictures, and the pictures are displayed successively in order to create an animation.

24. (Amended) A method according to claim 23 wherein the animation is acting as a screen saver when the user has selected the profile for the communication terminal.

25. (Amended) A method according to claim 19 wherein the message furthermore includes a name label for the profile.

26. (Amended) A communication terminal having a number of user selectable profiles each including a group of user adjustable operating characteristics, and

comprising means for arranging a group of user adjustable operating characteristics in a message having a predetermined message format, and means for transmitting said message to the communication terminal via a communication channel.

27. (Amended) A communication terminal according to claim 26 wherein the message includes a ringing tone and at least one graphical picture stored in a profile selected by the user.

28. (Amended) A method according to claim 27 wherein the at least one graphical picture is displayed in the display of the communication terminal dependent upon the operation thereof when the user has selected said profile for the communication terminal.

30. (Amended) A communication terminal according to claim 27 wherein the at least one graphical picture includes a plurality of individual pictures, and the terminal has means for displaying said pictures successively in order to create an animation.

31. (Amended) A method according to claim 31 wherein the animation acts as a screen saver when the user has selected the profile for the communication terminal.

32. (Amended) A communication terminal according to claim 26 wherein the message furthermore includes a name label for the profile.

33. (Amended) A method of handling operating characteristics of a communication terminal, the communication terminal including a number of user selectable groups of user adjustable operating characteristics, comprising

receiving a message including a group of user adjustable operating characteristics from a remote terminal transmitted via a communication channel, and
saving the group of user adjustable operating characteristics individually in each selectable group in said communication terminal.

34. (Amended) A method according to claim 33 wherein the message includes a ringing tone and at least one graphical picture, stored in a corresponding user selectable group.

35. (Amended) A method according to claim 33 wherein the at least one graphical picture is displayed in the display of said communication terminal in dependence upon the operation thereof when the user has selected the profile for the communication terminal.

36. (Amended) A method according to claim 34 wherein the message includes a card, defining contact information, and/or a calendar note, defining a date of an event, stored in a corresponding user selectable group.

37. (Amended) A method according to claim 34 wherein the message includes bookmark information defining the location of a server document to be processed by the communication terminal, for being stored in a corresponding user selectable group.

38. (Amended) A method according to claim 33 wherein the remote terminal is a server, providing promotional content.

39. (Amended) A method according to claim 33 wherein the remote terminal is a server, providing event driven content.

40. (Amended) A remote terminal comprising operating characteristics for a communication terminal, the communication terminal includes a number of user selectable groups of user adjustable operating characteristics, said remote terminal comprising:

bundling means which generates a message including a group of user adjustable operating characteristics, and

transmitting means which transfers the message to the communication terminal via a communication channel, where the communication terminal saves the group of user adjustable operating characteristics individually in each selectable group in the communication terminal.

41. (Amended) A remote terminal according to claim 40 wherein the remote terminal is a server, providing promotional content.

42. (Amended) A remote terminal according to claim 40 wherein the remote terminal is a server, providing event driven content.

43. (Amended) A remote terminal according to claim 40 wherein the message includes a ringing tone and at least one graphical picture, generated by said bundling means.

44. (Amended) A remote terminal according to claim 43 wherein the message includes a card, defining contact information, and/or a calendar note, defining a date of an event, to generated by said bundling means.

45. (Amended) A remote terminal according to claim 44 wherein the message includes bookmark information defining the location of a server document to be processed by the communication terminal, to generated by said bundling means.

IN THE ABSTRACT

The Abstract has been rewritten as indicated below:

-- A communication terminal has a number of user selectable profiles each including a group of user adjustable operating characteristics. These selectable profiles may be transferred from one communication terminal to another included in a message containing a group of user adjustable operating characteristics. When

the communication terminal receives this message transmitted via a communication channel, the message is analyzed and the terminal saves the group of user adjustable operating characteristics as a profile. --.

REMARKS


The specification and claims have been amended to eliminate typographical and grammatical errors. No new matter has been added.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "**Version with Markings to Show Changes Made**".

To the extent necessary, applicants petition for an extension of time under 37 CFR §1.136. Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account No. 01-2135 (367.40544X00) and please credit any excess fees to such deposit account.

Respectfully submitted,

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101680-19/24660

terminal in order to fit into the requirements of the environment. This is very convenient for the user when [he moves] moving from a noisy environment, e.g., factory or street, into a silent environment, e.g., a meeting room, a [theatre] theater, or a restaurant. The users highly appreciate these profiles.

Page 2, paragraph beginning at line 10, has been amended as indicated below:

Preferably the transmitted profile message includes a ringing tone and at least one graphical picture [for being] which is stored in a profile selected by the user. It is also possible to include a calendar note and/or a bookmark in the profile message. The remote terminal can be a server, which may provide promotional content and/or event driven content. According to the preferred embodiment of the invention, the communication terminal allows the user to discard a received profile message after inspection of items included in the profile message. The data contained in the profile message includes according to the preferred embodiment a plurality of individual pictures, and [said] the pictures are displayed successively in order to create an animation. The profile message may furthermore include a name label for the profile.

Page 2, paragraph beginning at line 21, has been amended as indicated below:

According to a second aspect of the invention there is provided a communication terminal having a number of user selectable profiles each including a group of user adjustable operating characteristics, and comprising means for receiving messages, means for analyzing the message type and for detecting user adjustable operating characteristics when present in the message, and means for storing user adjustable operating characteristics as one of [said] the number of user selectable profiles available in [said] the communication terminal.

Page 2, paragraph beginning at line 31 to page 3, line 5, has been amended as indicated below:

According to a third aspect of the invention there is provided a method of providing operating characteristics for a profile for a communication terminal, [said] the communication terminal [has] including a number of user selectable profiles each including a group of user adjustable operating characteristics, comprising arranging a group of user adjustable operating characteristics in a message having a predetermined message format, and transmitting [said] the message to [said] the communication terminal via a communication channel.

Page 3, paragraph beginning at line 7, has been amended as indicated below:

According to a fourth aspect of the invention there is provided a communication terminal having a number of user selectable profiles each including a group of user

adjustable operating characteristics, and comprising means for arranging a group of user adjustable operating characteristics in a message having a predetermined message format, and means for transmitting said message to [said] the communication terminal via a communication channel.

Page 3, paragraph beginning at line 15, has been amended as indicated below:

According to a fifth aspect of the invention there is provided a method of handling operating characteristics of a communication terminal, where the communication terminal has a number of user selectable groups of user adjustable operating characteristics, and comprising the reception of a message including a group of user adjustable operating characteristics from a remote terminal transmitted via a communication channel, and saving [said] the group of user adjustable operating characteristics individually in each selectable group in [said] the communication terminal. In a preferred embodiment of this fifth aspect of the invention, the message may include a ringing tone and at least one graphical picture, [for being] which is stored in a corresponding user selectable group. It also possible to include a calendar note and/or a bookmark, for being stored in a corresponding user selectable group.

Page 3, paragraph beginning at line 28 to page 4, line 5, has been amended as indicated below:

According to a sixth aspect of the invention there is provided a remote terminal comprising operating characteristics for a communication terminal, where the communication terminal has a number of user selectable groups of user adjustable operating characteristics, and the [said] remote terminal [comprising] comprises bundling means to generate a message including a group of user adjustable operating characteristics, and transmitting means to transfer [said] the message to the

communication terminal via a communication channel, where the communication terminal is able to save [said] the group of user adjustable operating characteristics individually in each selectable group in [said] the communication terminal.

Page 4, paragraph beginning at line 15, has been amended as indicated below:

Fig. 2 schematically shows [the essential] parts of a communication terminal for communication with a cellular network.

Page 4, paragraph beginning at line 24, has been amended as indicated below:

Fig. 5 shows a network in which profiles of terminals may be transferred according to the invention.

Page 5, paragraph starting at line 24, has been amended as indicated below:

Fig. 2 schematically shows the most important parts of a preferred embodiment of the phone, [said] the parts being essential to the understanding of the invention. The processor 18 controls [the communication] communications with the network via the transmitter/receiver circuit 19 and an internal antenna 20.

Page 5, paragraph beginning at line 29 to page 6, line 6, has been amended as indicated below:

The microphone 6 transforms the user's speech into [analogue] analog signals, the [analogue] analog signals formed thereby are A/D converted in an A/D converter (not

shown) before the speech is encoded in a digital signal processing unit 14 (DSP). The encoded speech signal is transferred to the processor 18, which [i.a.] supports the GSM terminal software. The processor 18 also forms the interface to the peripheral units of the apparatus, including a RAM memory 17a and a Flash ROM memory 17b, a SIM card 16, the display 3 and the keypad 2 (as well as data, power supply, etc.). The digital signal-processing unit 14 speech-decodes the signal, which is transferred from the processor 18 to the earpiece 5 via a D/A converter (not shown).

Page 7, paragraph beginning at line 1, has been amended as indicated below:

When the address information has been added at the SMS transmission controller 31, the message is transferred into an outbox 32, which sends the message, and which has access to a buffer, in which the message is stored until a successful transmission has been reported. If the transmission fails, the outbox 32 re-transmits the message. When the transmitter/ receiver circuit 19 has network coverage and is idle, the message is transferred to an SMS transmission driver circuit 33 by the controller 18 which adds the header to the message information relating to the mobile communications system in question, such as validity information (which indicates in which direction the message is going, i.e., from a mobile station to a message service [centre] center or vice versa), processes the address information into a form required by the mobile communications system, and adds to the message the address of the message service [centre] center, as well as the short message identifier, and forms the information to be transmitted, e.g., a digital signal for a transmitter 19.

Page 7, paragraph beginning at line 16, has been amended as indicated

below:

The operations provided by the processor 18, the SMS transmission control unit 31, the SMS outbox 32 and the SMS transmission driver 33 can also be provided as an application run on a Personal Computer 58 (see fig. 5), which may have a connection to a short message service [centre] center via the Internet.

Page 7, paragraph beginning at line 29 to page 8, line 9, has been amended as indicated below:

If the message has an identifier indicating that the message includes a profile, the processor 18 will further search for [anelement] an element identifying the individual elements of the profile. When the elements have been identified, the processor 18 starts to process the received data. For the name of the profile, the processor 18 performs a transformation of the binary characters into ASCII characters and identifies the text label as the name of the profile. For the ringing tone element, the processor 18 performs a transformation of the binary characters into ASCII characters and further the transformation of the ASCII characters into a ringing tone. For the graphic element, the processor 18 performs a transformation of the binary characters into a bit map file with the dimensions given in the element identifier, and if it is an animation the transformation is repeated for each image. All the individual elements are stored in a temporary memory.

Page 8, paragraph beginning at line 15, has been amended as indicated

below:

However the full profile menu for editing, selection etc, has to be accessed by selecting "Menu" in idle state (first display of [fig.] Fig. 4) and thereby entering the menu structure of the phone by pressing the softkey 8. In the menu the user has to scroll through the list of selectable items 23 by using the cursor navigation key 10 – according to the preferred embodiment of the invention these items will include: "Phonebook", "Messages", "Call register", "Settings", "Call divert", "Games", "Calculator", "Clock", "Profiles" - for scrolling to the "Profiles" menu as illustrated in the second display in [fig.] Fig. 4, and select the highlighted item by pressing the softkey 8 having the softkey label 22 "Select".

Page 9, paragraph beginning at line 21, has been amended as indicated below:
When the user selects "Profiles" a list of selectable items will occur. This list will as indicated in the third display of [fig.] Fig. 4 include "Personal", "Silent", "Discreet", "Loud", "Profile name #1", "Profile name #2", where the last two items refer to one or more further possible profiles defined by the user or received from other users, while the first four items refers to profiles set from the factory. However some or all of these present profiles may also be edited. Now the user can move the cursor through the available profiles and select the desired one. No empty profiles will be listed.

Page 10, paragraph beginning at line 15, has been amended as indicated below:

When the desired profile is highlighted the user selects the profile by pressing the softkey 8 now having the softkey label 23 "Option". When the user has selected one of the profiles e.g. "Personal" a list of selectable items will appear. This list will as indicated in the fourth display of [fig.] Fig. 4 include "Use", "Personalise", and "Send". For editing a profile, the cursor 24 has to highlight "Personalise" and the user has to press the softkey 8 having the softkey label 22 "OK". Then a list of selectable items will appear, and this list will as indicated in the fifth display of [fig.] Fig. 4 include adjustable

settings as "Ringing tone", "Ringing volume", "Incoming call alert", "Message alert tone", "Keypad tones", "Warning and game tones", " Vibrating alert ", and " Profile graphic ".

Page 11, paragraph beginning at line 29 to page 12, line 2, has been amended as indicated below:

The menu item "Profile graphic" sets the picture that is displayed in idle state after a selected period of time (called "timeout"). The user can select from a couple of pre-stored animations or animations received from a remote terminal. An animation is a sequence of images being repeatedly refreshed in the display. The way this kind of animation work is explained in details in the [patent] US patent [5.870.683] 5.870.683 [in the name] of the [applicant] assignee.

Page 12, paragraph beginning at line 17, has been amended as indicated below:

In the sixth display of [fig.] Fig. 4 the user may scroll through the entire list of available ringing tones and select the one he prefers. The same is done for all the other selectable settings the user wants to set. When a ringing tone is selected in the sixth display by pressing the softkey 8 having the softkey label 22 "OK", the phone jumps to the higher menu level shown in the fifth display of [fig.] Fig. 4.

Page 12, paragraph beginning at line 24, has been amended as indicated below:

If the user does not want to change a setting he simply presses the "clear key" 9 and the phone goes one level up in menu. If the user continues to press the "clear key" 9 [he] the user will go one level up in menu each time until it reaches the idle state with the first display of [fig.] Fig. 4. Alternatively the idle state may be reached by long pressing the "clear key" 9 (for more than 0.8 sec).

Page 12, paragraph beginning at line 30 to page 13, line 2, has been amended as indicated below:

Profiles transferred to a mobile communication terminal (e.g. a cellular phone) via a wireless network connection may be called Over-The-Air profiles or OTA profiles. OTA profiles [is] are a new way to personalise the phone according to personal preferences. Similarly to normal profiles (pre-stored in the phone), they are used to adjust the phone for different situations of use.

Page 13, paragraph beginning at line 31 to page 32, line 6, has been amended as indicated below:

However more complex graphics may be desired and this may for example be provided as a sequence of simple bit-map images, e.g., 3-5 images, and these individual images are shown sequentially with a refresh time set by the user. Advantageously these animations only have a duration corresponding to a few seconds. After the termination of the animation one of the images remains in the display for a while, e.g. 30 minutes, and the animation is repeated. However other events can trigger the animation, e.g. an input from a sensor detecting changes of the movements of the terminal.

Page 14, paragraph beginning at line 15, has been amended as indicated below:

The entity formed by a number of base stations 50 and a single base station controller 52 is called a base station system (BSS) 53. The base station controller 52 manages radio communication channels and handovers. Furthermore the base station controller 52 is connected to a mobile services switching [centre] center (MSC) 54 via a so-called A-interface 55. The mobile services switching [centre] center 54 co-ordinates the formation of connections both from and to mobile stations. The mobile service switching [centre] center 54 connects the base station system 53 to the world outside the mobile communications network, e.g. to a short message service [centre] center (SM-SC) 55 managing the SMS activity in the mobile communications network.

Page 14, paragraph beginning at line 26, has been amended as indicated below:

When a user wants to send a short message (SMS) by means of the phone 1, [he] the user writes or retrieves from the memory a message to be transmitted and gives the phone number of receiver of the message, i.e., an identifier of a receiving phone 56, to where the message is going to be transmitted. When sending a short message, the message goes from the phone 1 to the base station 50, and from there, through the base station controller 52 and the mobile services switching [centre] center 54, further to the short message service [centre] center 55. The short message is stored at the short message service [centre] center 55, from where it will be sent further to the receiving mobile station 56, and the route of the message will be in the same way as in transmission, but in the opposite direction. The short message service [centre] center 55 will be informed whether or not the mobile station 56 has received the short message. If not the short message will be re-transmitted.

Page 15, paragraph beginning at line 8, has been amended as indicated below:

In addition to this, short messages can be sent from a Personal Computer (PC) 57 e.g. in a special Internet application available at some network operators home page available via the Internet 58. In this case, the mobile services switching [centre] center 54 is in connection with a gateway server 59 (GTW), which again is in connection with the Internet 58. On this WWW page containing the special Internet message application, the user inputs the telephone number of the receiving phone 56 and the message to be transmitted, upon where the message can be sent from the Personal Computer (PC) 57, in which case it goes through the Internet 58 and the gateway server 59 to the mobile services switching [centre] center 54 and further to the short message service [centre] center 55, and further to the receiving phone 56 through the mobile communications network.

Page 19, paragraph beginning at line 16 to page 20, line 20, has been amend

as indicated below:

According to the present invention it is also possible to transmit a message with a bundle of content, by means of a remote terminal comprising operating characteristics for a communication terminal. The communication terminal can be a phone 1, 56, which comprises a number of user selectable groups of user adjustable operating characteristics. The remote terminal can be the PC 57 or the Internet 58, which comprises bundling means to generate a message including a group of user adjustable operating characteristics, e.g. a ringing tone and a graphical picture. The remote terminal further comprises transmitting means to transfer the message to the communication terminal via a communication channel, like using SMS or another kind of communication channel. Thus, content is transmitted from the remote terminal via a communication channel, which both can be done by means of the PC 57 or the Internet 58. Upon reception of the message, the communication terminal is able to save the group of user adjustable operating characteristics individually in each selectable group in [said] the communication terminal. Thus, instead of sending a message in format of a profile, the content can be handled individually within a phone's 1 user selectable groups, which also increase the degree of freedom for the user to personalise the phone.

Page 21, paragraph beginning at line 14, has been amended as indicated below:

The embodiment described with reference to [fig.] Figs. 6 and 7 relates to an OTA profile message in which the message includes the profile name, a profile graphic acting as a screen saver, and a ringing tone. Fig. 6 shows a flow chart over the OTA Profile reception procedure and [fig.] Fig. 7 shows a sequence of displays upon reception of the OTA Profile. When an OTA profile is received (step 60), an SMS Alert tone is played. A soft notification 26 "OTA Profile received" is displayed (step 61). Soft notifications inform the user of events that have typically occurred without the user having been involved. Normally, they are shown as display text.

Page 22, paragraph beginning at line 1, has been amended as indicated below:

When the user upon the soft notification (the second display of fig. 7) presses the softkey 8 having the softkey label 22 "Option", the phone 1 displays a selection list (in step 66) of the following selectable items:

- Details
- Save
- Discard

Page 22, paragraph beginning at line 18, has been amended as indicated below:

When the user in step 71 selects the "Playback" softkey 8 the phone will play the received ringing tone for the user in step 72, and an information note 27 will as shown items in the fifth display of fig. 7 be shown in the display 2. The softkey label 22 will change to "Quit" and the softkey functionality will be quitting the ringing tone playback. After the playing is interrupted or finished, the selection list with the selectable items (the fourth display of [fig.] Fig. 7) is displayed again.

Page 23, paragraph beginning at line 1, has been amended as indicated below:
If the user in step 67 selects "Save" from the softkey selection list (third display of [fig.] Fig. 7), or save from the details list in step 71, the phone displays an information note 27 as shown in the sixth display of [fig.] Fig. 7 with the display text "Select location for the profile". After this the phone displays as shown in the seventh display of [fig.] Fig. 7 all the profiles as a selection list. The user can in step 68 select the profile to be replaced.

Page 23, paragraph beginning at line 14, has been amended as indicated below:

After the selection, the Confirmation Query "Replace profile U" is displayed as an information note 27 if U is the name of the replaced profile as shown in the eighth display of [fig.] Fig. 7. The softkey label 22 is "OK". If the user confirms, the profile is

saved in step 69 and a confirmation note 28 saying "OTA profile has been saved" is displayed as shown in the ninth display of [fig.] Fig. 7, and the phone goes to the idle state.

In the Claims:

The claims have been amended as indicated below:

1. (Amended) A method of handling operating characteristics of a profile in a communication terminal, [said] the communication terminal [has] includes a number of user selectable profiles each including a group of user adjustable operating characteristics, comprising:

[reception of] receiving a message including a group of user adjustable operating characteristics from a remote terminal transmitted via a communication channel, and saving [said] the group of user adjustable operating characteristics as a profile in [said] the communication terminal.

2. (Amended) A method according to claim 1 wherein [said] the message includes a ringing tone and at least one graphical picture [for being] stored in a profile selected by the user.

3. (Amended) A method according to claim 2 wherein [said] the at least one graphical picture is displayed in the display of [said] the communication terminal in dependence of the operation thereof when the user has selected [said] the profile for the communication terminal.

4. (Amended) A method according to claim 2 wherein [said] the message [including] includes a card, defining contact information, and/or a calendar note, defining a date of an event, for being stored in a profile selected by the user.

5. (Amended) A method according to claim 2 wherein [said] the message [including] includes bookmark information defining the location of a server document to

be processed by the communication terminal, for [being stored] storage in a profile selected by the user.

6. (Amended) A method according to claim 1 wherein [said] the remote terminal is a server, providing promotional content.

7. (Amended) A method according to claim 1 wherein [said] the remote terminal is a server, providing event driven content.

9. (Amended) A method according to claim 2 wherein [said] the at least one graphical picture includes a plurality of individual pictures, and [said] the pictures are displayed successively in order to create an animation.

10. (Amended) A method according to claim 9 wherein [said] the animation is acting as a screen saver when the user has selected [said] the profile for the communication terminal.

11. (Amended) A method according to claim 1 wherein [said] the message furthermore includes a name label for the profile.

12. (Amended) A communication terminal having a number of user selectable profiles each including a group of user adjustable operating characteristics[, and] comprising means for receiving messages, means for analysing [the] a message type and for detecting user adjustable operating characteristics when present in the message, and means for storing user adjustable operating characteristics as one of [said] the number of user selectable profiles available in [said] the communication terminal.

13. (Amended) A communication terminal according to claim 12 wherein [said] the message includes a ringing tone and at least one graphical picture for being stored

in a profile selected by the user.

14. (Amended) A communication terminal according to claim 12 [or 13] wherein [said] the communication terminal has means for displaying [said] the at least one graphical picture in the display [of said in dependence] independent of the terminal when the user has selected [said] the profile for the communication terminal.

16. (Amended) A communication terminal according to claim 13 wherein [said] the at least one graphical picture includes a plurality of individual pictures, and the terminal has means for displaying [said] the pictures successively in order to create an animation.

17. (Amended) A communication terminal according to claim 16 [and having] comprising means for displaying [said] the animation as a screen saver when the user has selected [said] the profile for the communication terminal.

18. (Amended) A communication terminal according to claim 12 wherein [said] the message furthermore includes a name label for the profile.

19. (Amended) A method of providing operating characteristics for a profile for a communication terminal, [said] the communication terminal [has] includes a number of user selectable profiles each including a group of user adjustable operating characteristics, comprising arranging a group of user adjustable operating characteristics in a message having a predetermined message format, and transmitting [said] the message to [said] the communication terminal via a communication channel.

20. (Amended) A method according to claim 19 wherein [said] the message includes a ringing tone and at least one graphical picture [for being] stored in a profile selected by the user.

21. (Amended) A method according to claim 20 wherein [said] the at least one graphical picture is displayed in the display of [said] the communication terminal [in dependence of] dependent upon the operation thereof when the user has selected [said] the profile for the communication terminal.

22. (Amended) A method according to claim 20 wherein [the communication terminal allows the user to discard a] received profile message is discarded by the communication terminal after inspection of items included in the profile message.

23. (Amended) A method according to claim 20 wherein [said] the at least one graphical picture includes a plurality of individual pictures, and [said] the pictures are displayed successively in order to create an animation.

24. (Amended) A method according to claim 23 wherein [said] the animation is acting as a screen saver when the user has selected [said] the profile for the communication terminal.

25. (Amended) A method according to claim 19 wherein [said] the message furthermore includes a name label for the profile.

26. (Amended) A communication terminal having a number of user selectable profiles each including a group of user adjustable operating characteristics, and comprising means for arranging a group of user adjustable operating characteristics in a message having a predetermined message format, and means for transmitting said message to [said] the communication terminal via a communication channel.

27. (Amended) A communication terminal according to claim 26 wherein [said] the message includes a ringing tone and at least one graphical picture [for being] stored in a profile selected by the user.

28. (Amended) A method according to claim 27 wherein [said] the at least one graphical picture is displayed in the display of [said] the communication terminal [in dependence of] dependent upon the operation thereof when the user has selected said profile for the communication terminal.

30. (Amended) A communication terminal according to claim 27 wherein [said] the at least one graphical picture includes a plurality of individual pictures, and the terminal has means for displaying said pictures successively in order to create an animation.

31. (Amended) A method according to claim 31 wherein [said] the animation [is acting] acts as a screen saver when the user has selected [said] the profile for the communication terminal.

32. (Amended) A communication terminal according to claim 26 wherein [said] the message furthermore includes a name label for the profile.

33. (Amended) A method of handling operating characteristics of a communication terminal, [said] the communication terminal [has] including a number of user selectable groups of user adjustable operating characteristics, comprising receiving a message including a group of user adjustable operating characteristics from a remote terminal transmitted via a communication channel, and saving [said] the group of user adjustable operating characteristics individually in each selectable group in said communication terminal.

34. (Amended) A method according to claim 33 wherein [said] the message includes a ringing tone and at least one graphical picture, [for being] stored in a corresponding user selectable group.

35. (Amended) A method according to claim 33 wherein [said] the at least one graphical picture is displayed in the display of said communication terminal in dependence [of] upon the operation thereof when the user has selected [said] the profile for the communication terminal.

36. (Amended) A method according to claim 34 wherein [said] the message [including] includes a card, defining contact information, and/or a calendar note, defining a date of an event, [for being] stored in a corresponding user selectable group.

37. (Amended) A method according to claim 34 wherein [said] the message [including] includes bookmark information defining the location of a server document to be processed by the communication terminal, for being stored in a corresponding user selectable group.

38. (Amended) A method according to claim 33 wherein [said] the remote terminal is a server, providing promotional content.

39. (Amended) A method according to claim 33 wherein [said] the remote terminal is a server, providing event driven content.

40. (Amended) A remote terminal comprising operating characteristics for a communication terminal, [said] the communication terminal [has] includes a number of user selectable groups of user adjustable operating characteristics, said remote terminal comprising:

[-] bundling means [to generate] which generates a message including a group of user adjustable operating characteristics, and

[-] transmitting means [to transfer said] which transfers the message to the communication terminal via a communication channel, where the communication terminal [is able to save said] saves the group of user adjustable operating characteristics individually in each selectable group in [said] the communication terminal.

41. (Amended) A remote terminal according to claim 40 wherein [said] the remote terminal is a server, providing promotional content.

42. (Amended) A remote terminal according to claim 40 wherein [said] the remote terminal is a server, providing event driven content.

43. (Amended) A remote terminal according to claim 40 wherein [said] the message includes a ringing tone and at least one graphical picture, [to] generated by said bundling means.

44. (Amended) A remote terminal according to claim 43 wherein [said] the message [including] includes a card, defining contact information, and/or a calendar note, defining a date of an event, to generated by said bundling means.

45. (Amended) A remote terminal according to claim 44 wherein [said] the message [including] includes bookmark information defining the location of a server document to be processed by the communication terminal, to generated by said bundling means.

In the Abstract

The Abstract has been amended as indicated below:

A communication terminal has a number of user selectable profiles each including a group of user adjustable operating characteristics. These selectable profiles may be transferred from one communication terminal to another included in a message containing a group of user adjustable operating characteristics. When the communication terminal receives this message transmitted via a communication channel, [it analyses] the message is analyzed and the terminal saves the group of user adjustable operating characteristics as a profile.